APPENDIX C9

The first function is similar to as the IP capsulation and decapsulation by the prior patent. Explanation is made with reference to a unit control table 722-1(Fig. 64) and flowchart of Figs. 65 and 66.
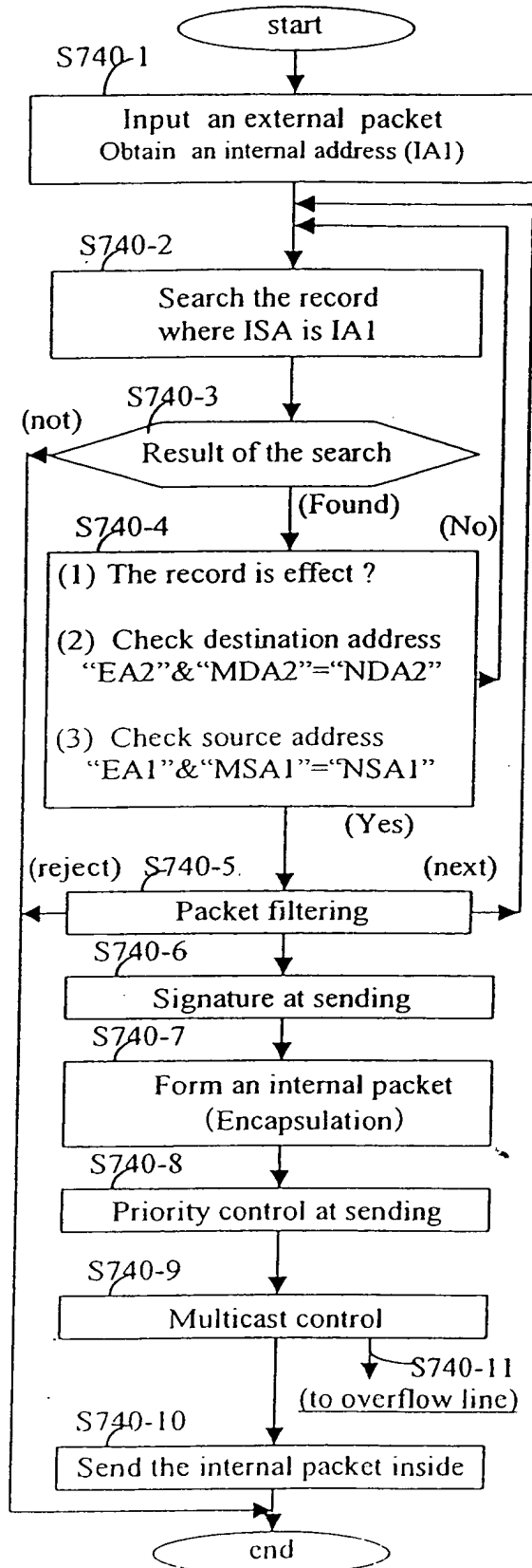
Fig.64

722-1

IA7	IA8	NSA7	NDA8	MSA7	MDA8	IFI7	IFE7	ID7	CTL7	PTR7
IA1	IA2	NSA1	NDA2	MSA1	MDA2	IF714	IF713	ID1	CTL1	PTR1
IA5	IA6	NSA5	NDA6	MSA5	MDA6	IFI5	IFE5	ID5	CTL5	PTR5
. .	. .	. .	. .	. .	. .	. .	. .	. .	. .	. .

Fig.65

Fig.66

Fig.65

start

S740-1
Input an external packet
Obtain an internal address (IA1)

S740-2
Search the record
where ISA is IA1

S740-3
(not) Result of the search

(Found) (No)

S740-4
(1) The record is effect ?

(2) Check destination address
"EA2"&"MDA2"="NDA2"

(3) Check source address
"EA1"&"MSA1"="NSA1"

(Yes)

(reject) S740-5 (next)
Packet filtering

S740-6
Signature at sending

S740-7
Form an internal packet
(Encapsulation)

S740-8
Priority control at sending

S740-9
Multicast control

S740-11
(to overflow line)

S740-10
Send the internal packet inside

end

Fig.66

start

S741-1
Input an internal packet
Obtain destination address (IA1)

S741-2
Search the record
where ISA is IA1

S741-3
(not) Result of the search

(Found) (No)

S741-4
(1) The record is effect ?

(2) Check destination address
"EA1"&"MSA1"="NSA1"

(3) Check source address
"EA2"&"MDA2"="NDA2"

(Yes)

(reject) S741-5 (next)
Packet filtering

S741-6
Signature at receiving

S741-7
Recover an external packet
(De-encapsulation)

S741-8
Priority control at receiving

S741-9
Multicast control

S741-10
Send the external packet outside

end

3